

Patent  
42717-1700

**IN THE CLAIMS:**

1. (Currently Amended) An air blower system comprising:  
a compression unit for compressing and directing air flow; and  
a plenum chamber operatively connected to the compression unit, the plenum chamber having a plenum member forming an interior wall with a curvilinear interior surface, the plenum member curvilinear interior surface having a plurality of predetermined surface indentations to enable the formation of a predetermined amount of controlled local turbulence adjacent the curvilinear interior surface to reduce friction and suppress noise as the compressed air moves across the curvilinear interior surface,

wherein the plenum member curvilinear interior surface indentations are irregular and vary in depth to reduce friction and suppress noise having harmonic vibration components.

2. (Original) The air blower system of Claim 1, further comprising:  
an air filter, the air filter suitably positioned to filter air one of before and after induction to the compression unit.

3. (Original) The air blower system of Claim 1,  
wherein the plenum member is removable from the plenum chamber, the removable plenum member being formed in one piece from a semi-rigid material.

4. (Currently Amended) The air blower system of Claim 1,  
wherein the plenum member is formed as an irremovable part of the plenum chamber.

5-6. (Cancelled)

Patent  
42717-1700

7. (Currently Amended) The air blower system of Claim [[5]] 1,  
wherein the plenum member curvilinear interior surface indentations are  
irregularly spaced.
8. (Currently Amended) A warm air blower system, comprising:  
a compression unit for compressing and directing air flow;  
a plenum chamber operatively connected to the compression unit, the plenum  
chamber having a plenum member forming an interior wall with a curvilinear interior surface,  
the plenum member curvilinear interior surface having a plurality of predetermined surface  
indentations to enable the formation of a predetermined amount of controlled local turbulence  
adjacent the curvilinear interior surface to reduce friction and suppress noise as the compressed  
air moves across the curvilinear interior surface; and  
a heater unit for heating the directed air;  
a temperature sensor for measuring the temperature of the heated air, the  
temperature sensor being located in close proximity to where the heated air is supplied to a  
cooperative receiving unit, and  
a control unit to control and monitor the temperature of the heated air, the control  
unit allowing the selection of a predetermined set temperature of the heated air,  
wherein the predetermined set temperature is selected from a group consisting of  
36°C, 40°C, and 44°C, the actual temperature of the heated air varying by  $\pm 1^\circ\text{C}$  from the  
selected set temperature, and

Patent  
42717-1700

the control unit is capable of testing the operability of the warm air blower system, the control unit being responsive to a heated air over-temperature condition and a heated air under-temperature condition.

9. (Original) The warm air blower system of Claim 8, further comprising:  
an air filter, the air filter suitably positioned to filter air one of before and after induction to the compression unit.
10. (Original) The warm air blower system of Claim 8,  
wherein the plenum member is removable from the plenum chamber, the removable plenum member being formed in one piece from a semi-rigid material.
11. (Original) The warm air blower system of Claim 8,  
wherein the plenum member is formed as an irremovable part of the plenum chamber.
12. (Original) The warm air blower system of Claim 8, further comprising:  
a mounting apparatus for releasably mounting the warm air blower system to a mounting member.
13. (Original) The warm air blower system of Claim 12,  
wherein the mounting member is a support pole, a bed, or a floor rolling cart.
14. (Original) The warm air blower system of Claim 8,  
wherein the plenum member curvilinear interior surface indentations are irregular to reduce friction and suppress noise with harmonic vibration components.

Patent  
42717-1700

15. (Original) The warm air blower system of Claim 14,  
wherein the plenum member curvilinear interior surface indentations vary in  
depth.
16. (Currently Amended) The warm air blower system of Claim [[14]] §,  
wherein the plenum member curvilinear interior surface indentations are  
irregularly spaced.
17. (Cancelled)
18. (Original) The warm air blower system of Claim 17,  
wherein the control unit allows a selection of ambient temperature so that  
unheated air is delivered by the warm air blower system.
19. (Cancelled)
20. (Currently Amended) The warm air blower system of Claim 19,  
wherein the control unit has a heated air over-temperature safety limit of 3°C  
above the set temperature, the control unit detecting the over-temperature safety limit has been  
reached causes the warm air blower system to cease heating and air blowing, the control unit  
providing one or more indications of the heated air over-temperature condition, the indications  
being audible and visible.
21. (Original) The warm air blower system of Claim 20,  
wherein the control unit has a manually operated heated air over-temperature test  
mechanism whereby the heater unit is energized to exceed the selected set temperature, the

Patent  
42717-1700

heated air temperature gradually increasing until the heated air over-temperature safety limit for the predetermined set temperature is reached, the control unit responding to the over temperature condition by ceasing heating and blowing thereby verifying the proper operation of the control unit safety systems.

22. (Currently Amended) A warm air blower system, comprising:

a compression unit for compressing and directing air flow;

a plenum chamber operatively connected to the compression unit, the plenum chamber having a plenum member forming an interior wall with a curvilinear interior surface, the plenum member curvilinear interior surface having a plurality of predetermined surface indentations to enable the formation of a predetermined amount of controlled local turbulence adjacent the curvilinear interior surface to reduce friction and suppress noise as the compressed air moves across the curvilinear interior surface;

a heater unit for heating the directed air;

a temperature sensor for measuring the temperature of the heated air[[:]], the temperature sensor being located in close proximity to where the heated air is supplied to a cooperative receiving unit[[:]]; and

a control unit to control and monitor the temperature of the heated air, the control unit allowing the selection of a predetermined set temperature of the heated air, the control unit capable of automatically testing the operability of the warm air blower system, the control unit being responsive to a heated air over-temperature condition, and the control unit being responsive to a heated air under-temperature condition.

Patent  
42717-1700

wherein the control unit provides ~~[[an]]~~ a manually operated heated air over-temperature test to verify the proper response of the control unit to a heated air over-temperature condition, the control unit detecting when the over-temperature safety limit has been reached ~~causes to cause~~ the warm air blower system to cease heating and air blowing, the control unit providing one or more indications of the heated air over-temperature condition, the indications being audible and visible.

23. (Original) The warm air blower system of Claim 22,

wherein the manually operated heated air over-temperature test has an upper temperature limit that is based on the predetermined set temperature selected by the operator.

24. (New) An air blower system, comprising:

a compression unit for compressing and directing air flow; and

a plenum chamber operatively connected to the compression unit, the plenum chamber having a plenum member forming an interior wall with a curvilinear interior surface, the plenum member curvilinear interior surface having a plurality of predetermined surface indentations to enable the formation of a predetermined amount of controlled local turbulence adjacent the curvilinear interior surface to reduce friction and suppress noise as the compressed air moves across the curvilinear interior surface,

wherein the plenum member is removable from the plenum chamber, the removable plenum member being formed in one piece from a semi-rigid material.

Patent  
42717-1700

25. (New) An air blower system, comprising:
- a compression unit for compressing and directing air flow; and
  - a plenum chamber operatively connected to the compression unit, the plenum chamber having a plenum member forming an interior wall with a curvilinear interior surface, the plenum member curvilinear interior surface having a plurality of predetermined surface indentations to enable the formation of a predetermined amount of controlled local turbulence adjacent the curvilinear interior surface to reduce friction and suppress noise as the compressed air moves across the curvilinear interior surface,
- wherein the plenum member is formed as an irremovable part of the plenum chamber.